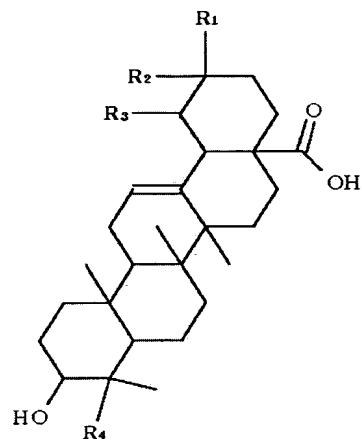


**What is claimed is:**

1. A pharmaceutical composition for improving brain functions comprising a triterpene compound represented by the Formula 1 as an active ingredient:

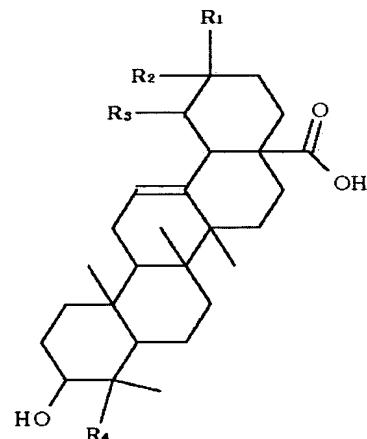
[Formula 1]



wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>4</sub> are independently CH<sub>3</sub> and R<sub>3</sub> is H; R<sub>1</sub> and R<sub>2</sub> are independently CH<sub>3</sub>, R<sub>3</sub> is H and R<sub>4</sub> is CH<sub>2</sub>OH; or R<sub>1</sub>, R<sub>3</sub> and R<sub>4</sub> are independently CH<sub>3</sub> and R<sub>2</sub> is H.

- 10 2. An agent for improving brain functions, which comprises as an active ingredient a triterpene compound represented by the Formula 1: control

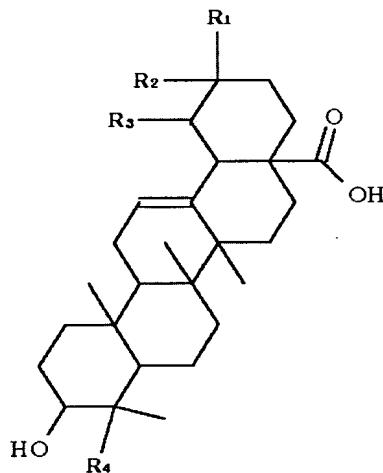
[Formula 1]



wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>4</sub> are independently CH<sub>3</sub> and R<sub>3</sub> is H; R<sub>1</sub> and R<sub>2</sub> are independently CH<sub>3</sub>, R<sub>3</sub> is H and R<sub>4</sub> is CH<sub>2</sub>OH; or R<sub>1</sub>, R<sub>3</sub> and R<sub>4</sub> are independently CH<sub>3</sub> and R<sub>2</sub> is H.

- 5       3. An agent for preventing and treating mild cognitive impairment and dementia, which comprises as an active ingredient a triterpene compound represented by the Formula 1:

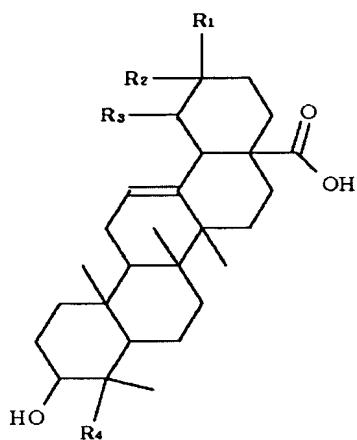
[Formula 1]



- 10      wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>4</sub> are independently CH<sub>3</sub> and R<sub>3</sub> is H; R<sub>1</sub> and R<sub>2</sub> are independently CH<sub>3</sub>, R<sub>3</sub> is H and R<sub>4</sub> is CH<sub>2</sub>OH; or R<sub>1</sub>, R<sub>3</sub> and R<sub>4</sub> are independently CH<sub>3</sub> and R<sub>2</sub> is H.

- 15      4. An agent for preventing and treating dementia comprising a triterpene compound represented by the Formula 1 as an active ingredient:

[Formula 1]

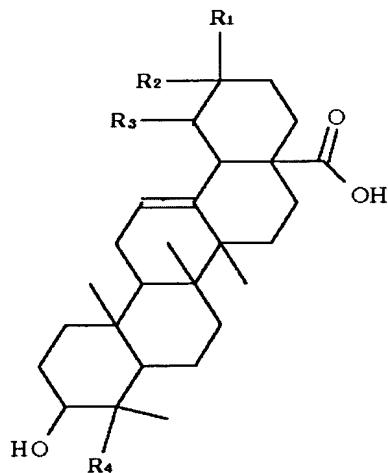


wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>4</sub> are independently CH<sub>3</sub> and R<sub>3</sub> is H; R<sub>1</sub> and R<sub>2</sub> are independently CH<sub>3</sub>, R<sub>3</sub> is H and R<sub>4</sub> is CH<sub>2</sub>OH; or R<sub>1</sub>, R<sub>3</sub> and R<sub>4</sub> are independently CH<sub>3</sub> and R<sub>2</sub> is H.

5

5. A health food for improving brain functions comprising a triterpene compound represented by the Formula 1 as an active ingredient:

[Formula 1]



10 wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>4</sub> are independently CH<sub>3</sub> and R<sub>3</sub> is H; R<sub>1</sub> and R<sub>2</sub> are independently CH<sub>3</sub>, R<sub>3</sub> is H and R<sub>4</sub> is CH<sub>2</sub>OH; or R<sub>1</sub>, R<sub>3</sub> and R<sub>4</sub> are independently CH<sub>3</sub> and R<sub>2</sub> is H.